PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCTISA 220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day month year) see form PCTJSA.210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT.ISA,220 See paragraph 2 below International application No. International filing date (day month/year) Priority date (day month year) PCT.GB2004.004596 29.10.2004 30.10.2003 International Patent Classification (IPC) or both national classification and IPC A01K67.033 Applicant SEABAIT LIMITED This opinion contains indications relating to the following items: Box No. I Basis of the opinion EST AVAILABLE COPY ☐ Box No. II Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Eox No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT.ISA.220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT.ISA.220. 3 For further details, see notes to Form PCT.ISA:220. Name and mailing address of the ISA: Authorized Officer European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl von Arx, V. Fax: +31 70 340 - 3016 Telephone No. +31 70 340-2464

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004,004596

Box No. I Basis of the opinion						
 With regard to the language, this opinion has been established on the basis of the international application the language in which it was filed, unless otherwise indicated under this item. 						
This opinion has been established on the basis of a translation from the original language into the follow language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).	/ing					
2. With regard to any nucleotide and or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
a. type of material:						
☐ a sequence listing						
☐ table(s) related to the sequence listing						
b. format of material:	:					
☐ in written format						
☐ in computer readable form						
c. time of filing/furnishing:						
□ contained in the international application as filed.						
filed together with the international application in computer readable form.						
furnished subsequently to this Authority for the purposes of search.						
In addition, in the case that more than one version or copy of a sequence listing and or table relating there has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed. as	to					
4. Additional comments:						

International application No. PCT/GB2004/004596

	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement		_		
	Novelty (N)	Yes: Claims 1-10 No: Claims			
-	Inventive step (IS)	Yes: Claims 1-10 No: Claims			
•	Industrial applicability (IA)	Yes: Claims 1-10 No: Claims			

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004.004596

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty/Inventive step: Although a similar method is known from WO-A-98/06255 for inducing spawning of Polychaete worms of the families Nereidae and Eunicidae, WO-A-98/06255 does not disclose a exposure time of 14 to 24 days, nor is the known method described as to be applicable to marine worms of the family Arenicolidae. The prior published documents, cited in the description or in the international search report, either taken individually or in combination do not disclose, suggest or reasonably lead the person skilled in the art to consider the methods for inducing sexual maturation as presently claimed. The person skilled in the art would not be able to combine all the features of claims 1, 3 and 6 and as such arrive at the claimed methods without an inventive activity.

Claims 2 and 8 to 10 are dependent on claim 1, claims 4 and 5 are dependent on claim 3 and claim 7 is dependent on claim 6. As such they also meet the requirements of the PCT with respect to novelty and inventive step.

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

In onal Application No

A. CLAS	SSIFICATION OF SUBJECT MATTER		PC1/462004/004596
IPC 7	SSIFICATION OF SUBJECT MATTER A01K67/033		
According	g to International Patent Classification (IPC) or to both nation	al classification and IPC	
B. FIELD	DS SEARCHED		
IPC 7	documentation searched (classification system followed by AO1K	dassification symbols)	
" ()	YOLK		
Document	tation searched other than minimum documentation to the ex	tent that such documents are inclu	ided in the fields searched
Electronic	data base consulted during the International search (name of	of data book and when we'll	
EPO-I	nternal, PAJ, WPI Data, BIOSIS	whole practical,	search terms used)
C. DOCUN	JENTS CONSIDERED TO BE RELEVANT		
Category °		of the relevant	
<u>-</u>			Relevant to claim No.
A	WO 98/06255 A (SEABAIT LIMIT 19 February 1998 (1998-02-19 pages 23-37	ED))	1,2,6-10
A	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVI PHILADELPHIA, PA, US; Marine Progress Series, 175, 167-176 17 December 1998 (1998-12-17) WATSON ET AL.: "Control of or maturation, sperm activation in two lugworm species: Areni and A. defodiens" XP002316464 Database accession no. PREV19 abstract	Ecology 5), ocyte and spawning cola marina	3-5
	er documents are listed in the continuation of box C.	X Palent family men	nbers are listed in annex.
A* document consider earlier do filing dat document which is citation of	t which may throw doubts on priority claim(s) or called to establish the publication date of another or other special reason (as specified)	cited to understand the invention "X" document of particular cannot be considered involve an inventive start invention in the start invention invention in the start invention in the star	ed after the international filing date i in conflict with the application but e principle or theory underlying the relevance; the claimed invention novel or cannot be considered to ep when the document is taken alone relevance; the claimed invention
document	published prior to the international filing data but	document is combined	to involve an inventive step when the with one or more other such docu-
rator trial	n the priority date claimed tual completion of the international search	*8* document member of the Date of mailing of the in	
	February 2005	10/03/2005	
me and mai	iling address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nt, Fax: (+31-70) 340-3018	VOD Arx V	,

INTERNATIONAL SEARCH REPORT

In	ional Application No
PC	CT/GB2004/004596

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9806255	A	19-02-1998	AU DE DE DK EP EP ES WO PT	3780197 A 69727681 D1 69727681 T2 917423 T3 1380206 A1 0917423 A1 2216161 T3 9806255 A1 917423 T	06-03-1998 25-03-2004 21-10-2004 28-06-2004 14-01-2004 26-05-1999 16-10-2004 19-02-1998 30-06-2004